

NORSODYNE® P 47127

First Emission: 12/10/2016

Version: 00, 19/12/2016

Product type

Unsaturated polyester resin in styrene, Isophthalic

Appearance

NA - Light - Transparent

Main resin characteristics

Medium flexibility and elasticity, Very good chemical resistance

Main applications

Pipes and tanks

Moulding informations

Filament winding,
Pultrusion

Shelf life and storage

Store in the shade, out of direct sunlight. Keep storage temperature below 25°C. Unseal container just before use. Shelf-life will be reduced reaching higher temperature.

Precaution for handling

Read carefully the Safety Data Sheet

Note

FEATURES OF THE LIQUID RESIN ⁽¹⁾

Properties	Test Method	Unit	Typical values
Specific weight at 20°C		g/cm ³	1,11
Brookfield viscosity at 23°C, sp 3 rpm 50	MT-CU023V	mPa.s	700 - 1000
Solid content	MT-CU001C	%	58 - 62
Reactivity	at 130°C + 1% TBPB		
Gel time ⁽²⁾	MT-CU003R	min:sec	2 - 3
Curing time	MT-CU003R	min:sec	3 - 5
Exothermic peak	MT-CU003R	°C	270 - 290
Shelf life at 23°C in the dark	MT-CU002S	months	9

1) Thoroughly test in your applications before full-scale use. Geltimes may vary due to the reactive nature of these materials and due to different brands of curing additives. Always test on small scale before formulating large quantities.

2) If present, Cobalt is herewith intended as octoate. Use of different Cobalt salts could result in different geltimes. Always test on small scale before formulating large quantities.

PROPERTIES OF THE CURED UNREINFORCED RESIN ⁽³⁾

Curing cycle	16 h at 80°C + 2 h at 120°C		
Tensile strength	ISO 527 (2012)	MPa	60
Tensile modulus	ISO 527 (2012)	MPa	3200
Elongation at break	ISO 527 (2012)	%	2,75
Flexural strength	ISO 178 (2011)	MPa	120
Flexural modulus	ISO 178 (2011)	MPa	3020
HDT	ISO 75-2A (2013)	°C	105

3) Properties are typical values, based on material tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

Polynt Composites UK Ltd. Laporte Road – Stallingborough near Grimsby North East Lincolnshire DN41 8DR – UK.
Company subject to the direction and coordination of Specialty Chemicals International Ltd. The information contained in this document (which is to be intended only for explanatory purposes) is correct and accurate and is based on our technical and scientific knowledge and on literature at the date of publication. Such information relates only to use of the products in the pure state and for the purposes stated herein. Nothing in the information contained in this document shall be deemed to be a warranty or a representation (explicit or implicit) by the manufacturer, and/or taken or construed as infringing of any existing patents. The manufacturer shall not be under any liability or responsibility for any of the information provided under this document or for any errors, omissions or misstatements, even with regard to results to be obtained through the use of the aforesaid information.